

OFFICIAL NEWSLETTER OF THE LONG ISLAND COMPUTER ASSOCIATION, INC.

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HOURS MON WED FRI 10-6

TUE THU 10-8

SAT 10-5

PRESIDENT'S MESSAGE NOVEMBER 1983

These are most interesting times in which we live. Certainly this is true when we consider the exponential growth of so-called "high technology". But these times are interesting from quite another point of view. Just look at how we each tend to our livelihood.

More families than ever before have multiple incomes, not just because both husbands and wives work, nor because of moonlighting for additional wages. A surprising number of people have opened up their own cottage-style businesses. These enterprises include both conventional and mail-order retailing and the sale of consulting services. I'd venture to say that a significant number of LICA Associates are engaged in such activities. For many a hobby has turned into a source of financial support.

For my part, I see only one difficulty with this trend. The customers of hobbyist-run businesses are frequently other hobbyists. We run the same risk as those in multi-level marketing enterprises: we may run out of customers who are not also our own suppliers. We also find ourselves in the peculiar position of having to guarantee support to customers who are no longer removed geographically or socially from ourselves-we are selling to our friends and neighbors.

As President of this Corporation the past two years, I've been hit with an increasing number of comments and complaints from LiCA Associates who feel less than honorably served by others among us. Having neither adequate time to investigate, not the Solomonic wisdom to adjudicate these squabbles, I am able only to make mention of these situations.

Ours is a complex hobby. Our playthings are complex devices, and the software systems operating on them are likewise complex. These are some of these reasons that we have joined together in this not-for-profit organization. A spirit of good will and cooperation are essential for our continued growth and effectiveness. So please, those of you who are also commercially involved with computers and computing - be especially ethical in all of your dealings with hobbyists like yourselves. You potential customers should also bear in mind that a certain amount of discretion and restraint in purchasing the tools of our hobby is a good thing. After all, you're not "dumbbells". Computers are for thinking people. Don't stop thinking when you power down your machines. ams

DIF PROGRAM FOR APPLE II COMPUTERS

We recently were required to convert a commercial software product from AppleSoft BASIC to BASIC-80, in order to permit its transportation to and subsequent compilation onto a multi-user Z80-based system. Several weeks into the project the original vendor issued an updated diskette. Our problem was to determine exactly what changes and enhacements, if any, had occured since the release of the prior version. Public domain software for CP/M users includes several file comparison programs. As has so often happened before, we had neither the time nor resources to determine if similar utilities exist for APPLE II computer users, so we wrote our own. The program is called DIF. It can compare two AppleSoft BASIC source files, by character within line, and produces a report of any line containing so little as a single altered control character. Operation on the largest possible files that can be run on an APPLE takes a few minutes at the most.

Copies of the DIF program, the utility to convert an AppleSoft BASIC program into a text file, and an accompanying documentation file are \$5 postpaid. It is available without charge to LICA members.

MONTHLY MEETINGS

All meetings, except IBM PC/UG are held at the New York Institute of Technology, Old Westbury Campus LICA meets each month on the third Friday evening at 8:00 in Room 508, Building 500

See the back cover of the Stack for map and directions Our next general meeting will be held on the 18TH of November. Our guest speaker will be Mr. Ron Richards who will speak on the future of rotating media. When Mr. Richards addressed LICA in 1982 he was brought back for a second discussion by public demand.

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SECRETARY'S REPORT ON LICA MEETING OF 21 OCTOBER 1983

Al Stone, our president, announced that the principal speaker of the evening was called away unexpectedly. However Tom Golway would continue his discussion of Local Networks. The Beginners Group would be conducted by Josh Weinberg after the break.

Stan Misel asked for a volunteer to give an introductory talk on computers to the Friends of the Mineola Library. The talk will be scheduled for the first Friday of either May or June, 1984. Volunteers should contact Stan or Jim Rooney at 100 Garden City Plaza.

Stan also reported that about ten LICA members have logged on to his Zenix system via modem as descibed in a previous Stack. Volumes 139, 142, 144, 145 of the SIG/M library are on line and can be downloaded. The phone number is 541-7949.

Irwin Weitman asked if anyone had information about a CP/M 2.2 BIOS to run on a Cromemco computer. Please call him at 266-2428.

Mike Bonadio wanted information on an interface between an Apple IIe and a Smith-Corona TP-2 or TP-2+ printer. He can be reached at (212) 463-2129.

Stu Greenberg spoke about the recently reported FBI raids on amateur computer operators. He said that although there were no formal charges or arrests, their equipment was confisated. Stu talked about the dangers inherent in such raids and in his opinion they were done to scare people. Other members in the audience had different opinions and a lively discussion took place.

There was a discussion of sending digital data over ham radio. Stu Domber said he had done this successfully a couple of years ago.

A motion to discuss the subject of Computer Security at the next meeting was passed.

Al Levy reported on the Third Annual LICA Computer Fair. He is looking for a location. Some of the places he is investigating are: Holiday Inn in Hempstead, Mid Island Plaza, Lymark location, Belmont, Kennedy Airport, Roosevelt Raceway and NYIT. The date has been established as the first Saturday in June 1984.

Ed Zuilkowski reported on the Nominating Committee. It met last Saturday and came up with a tentative election slate. However there has not been time to contact everyone to get their acceptance. There will be a formal listing of the proposed candidates in the next issue of the Stack. Anyone interested in making a nomination for any of the club's elective offices should contact Ed.

Ken reported on the recent CP/M show in Boston. There were many new products shown and the seminars had big name speakers. He also summarized other computer shows held in the area about the same time.

After the break, Tom Golway of Control Information Systems continued his lecture series on Local Networks. His first lecture on this subject was given at the August LICA meeting. Also a large part of the audience attended another session of Josh Weinberg's Beginners Class, held at the same time.

Frank Davidoff, Secretary

NOTICE

Mr.Davidoff is following Horace Greely's advice and moving to sunny California.

As a parting message I want to take this opportunity to thank you for encouraging articles on TECHNICAL TOPICS for the STACK. I also want to thank you for introducing me to concepts such as raster scanning and the like. Your talks on digital video and PIP were enlightening for new and "seasoned" members of the S/100 sig.

Because you had the patience to listen **and respond** to questions of LICA members, we feel a little less stupid.

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THE LICA LIBRARY

LICA is proud to own a library of disks (CPM and SIG/M) plus a few shelves filled with books and magazines. These books will be available on loan as of February of 1984. The name/address/phone of the librarian will be published in the STACK as soon as a proper library card system is completed.

Amid the collection LICA members will find the various newsletters received by us over the past years. In addition, there are many magazines including the first years of BYTE, Doctor Dobbs, Creative Computing, S/100 and Microsystems, etc etc etc.

Some of the books were donated by Frank Davidoff. Before he leaves for California I think it is appropriate that I acknowledge his gift. Here is a partial of the LICA library.

Titles	Author(s)	Publisher	DATE
SUPER-WUMPUS	JACK EMMERICH	PAPERBYTE	1978
COMPUTER MATHEMATICS HANDBOOK	JEROLD & MARTIN CLIFFORD	ALLYN & BACON	1974
MI CROPROCESSORS	LAURENCE ALTMAN	McGRAW HILL	1975
EDN DESIGNERS GUIDE TO SEMICONDUCTOR MEMORIES	ROBERT J FRANKENBERG	HEWLETT PACKARD	1976
BUBBLE MEMORY DESIGN HANDBOOK		INTEL MAGNETICS	1979
SYSTEMS ENGINEERING TODAY	VARIOUS AUTHORS	CHILTON PUBL.	
NEW DIRECTIONS FOR DESIGNERS (MICROPROCESSORS)	EDWARD A TORRERO	HAYDEN	1975
AUERBACH ON TIME SHARING	AUERBACH	AUERBACH	1970
PL/C ESSENTIALS	LAWRENCE J MAZLACK	McGRAW HILL	1977
MICROPROCESSOR BASICS	S ELPHICK	HAYDEN	1977
MICROPROCESSORS & MICROCOMPUTERS	DAVID COLLINS	INTERGRATED	1973
DATA PROCESSING FOR SECISION MAKING	RICHARD W BRIGHTMAN	MACMILLAN	1969
OWNING YOUR HOME COMPUTER	ROBERT L PERRY	EVEREST HOUSE	1980
MICRO PROCESSOR HANDBOOK	VARIOUS AUTHORS	TEXAS INSTRUMENTS	1975
WORD PROCESSORS	KATHRYN LAYMAN	PRENTICE HALL	1981
KEYPUNCHING (3RD EDITION)	PEGGY HANSON	PRENTICE HALL	1967
MICROPROCESSOR PRODUCTS	USER MANUAL FOR COSMAC MICROPROCESSOR	RCA	1975
FORTRAN AND FORTRAN PROGRAMMING	FREDERIC STUART	WILEY	1966
MORE FORTRAN PROGRAMS FOR ECONOMISTS	LUCY JOAN SLATER	CAMBRIDGE UNIV PRESS	1972
MICROCOMPUTER EXPERIMENTATION WITH THE MEK 6800D2	LANCE A LEVINTHAL	PRENTICE HALL	1981
PROCESSOR ARCHITECTURE	SH LAVINGTON	NCC	1976
SNOBOL3 PRIMER	ALLEN FORTE	MIT PRESS	1968
ADVANCED ANALYSIS WITH THE SHARP 5100 CALCULATOR	J M SMITH	WILEY	1979
COBOL FOR BEGINNERS	THOMAS WORTH	PRENTICE HALL	1977
SNOBOL AN INTRODUCTION TO PROGRAMMING	PETER NEWSTED	HAYDEN	1975
PROGRAMMING FOR POETS (USING FORTRAN)	RICHARD CONWAY	WINTHROP	1978
MATHEMATICS IN FUN & EARNEST	NATHAN COURT	MENTOR	1961
BASIC FROM THE GROUND UP	DAVID E SIMON	HAYDEN	1978
GETTING INVOLVED WITH YOUR OWN COMPUTER	STANLEY VEIT & LESLIE SOLOMAN	ENSLOW	1977
AN INTRODUCTION TO ELECTRONIC COMPUTERS	GORDON S DAVIS	McGRAW HILL	1965
INTRODUCTION TO COMPUTER PROGRAMMING	FRANCIS WALNUT	PRENTICE HALL	1968
360 PROGRAMMING IN ASSEMBLY LANGUAGE	CHAPIN	McGRAW HILL	1968
PCC REFERENCE BOOK	DWIGHT McCABE	PEOPLES COMPUTING	1977
INFORMATION	VARIOUS AUTHORS	SCIENTIFIC AMERICAN	1966
COMPUTER PROGRAMMING SYSTEMS	E PETER FISHER	HOLT	1964
HOW TO BUILD YOUR OWN MICROCOMPUTER	CHARLES ADAMS	TAB	1980
ELECTRONIC CALCULATORS	H EDWARD ROBERTS	SAMS	1974
INTRODUCTION TO DATA PROCESSING	F R CRAWFORD	PRENTICE HALL	1968
MICROCOMPUTER EXPERIMENTATION WITH THE SDK-85	LANCE LEVENTHAL & COLIN WALSH	PRENTICE HALL	1980
ANS COBOL A PRAGMATIC APPROACH	ROSS OVERBEEK & W E SINGLETARY	McGRAW HILL	1975
FORTRAN IV SELF TAUGHT	MARIO V FARINA	PRENTICE HALL	1966

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SPEAKING ABOUT BOOKS

We have all experienced the non-English versions of manuals. Often, manuals, text-books and the like are written and developed by engineers, teachers and other educational types. Nothing is as frustrating as trying to learn, and not understanding the subject matter at hand.

Much of my life has been devoted to fighting the systems developed by educational institutions on the grounds that what they call "teaching" is in reality "telling." In my humble opinion, a teacher's pay should be based on the succes of the students in his or her class.

In the same vein, a text-book is rarely worth the paper it is written upon. The computer "business" suffers from much the same disease (non-communication.)

I recently received a book entitled

"I SPEAK BASIC TO MY ATARI" The author is
Aubrey B. Jones, Jr. and the book is
published by HAYDEN BOOK COMPANY, INC of
Rochelle Park New Jersey. There are no
background notes on Mr. Jones.



One of the opening statements: "People control computers and computers cannot think (despite what you might have heard.)" I liked Mr.Jones from that point on.

The layout is an 8 X 11 page with 10 to 20 lines of large text per page. There are illustrations throughout which certainly helps us to learn in an analog fashion.

Mr.Jones often uses a split/screen technique. The left hand side of the page describing your action and the right hand side of the page showing the CRT display.

There are beautiful charts on pages 164, 166 and 168, describing the video screen.

There are many short programming examples which will certainly help the beginner to grasp the more meaningful concepts of programming.

The author uses many traditional methods of explaining items such as the DIM statement and this is where I see the book falling into the usual "telling" rut. Despite announcing his aim (in chapter eight) that you are about to learn the difference between numerics and strings, there is no way other than testing to indicate that the difference is clearly defined in the mind of the student.

"I SPEAK BASIC TO MY ATARI" is by far the best book I have seen to date on BASIC programming. If you do not own an ATARI, ignore the special ATARI CHR\$ functions, peeks, pokes, plots and colors. You will still find this "manual" helping you to program in BASIC quite quickly.

I can highly reccomend an additional book entitled "THE BASIC HANDBOOK" by David A Lien. The book is published by COMPUSOFT, P.O. Box 19699, San Diego CA 92119

When I started programming I had nothing but a user's manual, some popular magazines, and "THE BASIC HANDBOOK" to get me started. "THE BASIC HANDBOOK" will not teach you to program. It will serve as a reference. When you reach that point of frustration, after re-reading and retyping a program from a magazine for the 100th time, take out the handbook and you will find an excellent cross reference of various BASIC's.

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THE LICA SOFTWARE DISC

In the October issue of the STACK we started listing the various SIG/M volumes. More are listed on the next few pages of this issue. We will continue to list all of the CP/M and SIG/M volumes until a full listing has been completed. At that point, we will list only the new releases.

This listing is being printed so that members of LICA can have a printed copy of the CP/MUG library listings.

The LICA CP/M users group has prepared and 8" disk containing the catalogs of public domain software. These catalogs are from both the CP/M users group (CPMUG) and the special interest group (SIG/M). This will be referred to hereafter as the LICA disk.

The public domain software covers a wide range of topics, from games to business systems with a few interesting stops along the way.

Some of the in-betweeners are utilities such as "WASH" which cleans up disks and their directories. FMAP shows your system io and memory data. There is MTEST (memory test routine) and FIND. The FIND utility is included on the LICA diskette. It provides an interesting way to locate any subject matter in either catalog.

To save your eyes and your typing finger(s) use FIND to search out the information. A typical FIND command:

FIND SIG/M 'MODEM'

The topic (in this case "MODEM") can be any ASCII string. If the string is MODEM, FIND will find all software contains the word MODEM in the title.

FIND SIG/M 'MODEM7'

will find all of the software with MODEM7 in the title.

FIND CPMUG CAT VOLUME

This is an easy way to get a printout of the volume numbers and their full titles without the detailed description of each of the software "chapters." Each volume has many "chapters" or programs.

The present number of volumes in the CP/MUG is 90. The number of volumes in the SIG/MUG is 145.

This library of diskettes were/and are paid for by dues from the CPM users group of LICA. The word "member" in this article refers to those members of the CPM users group.

The LICA disk is available for \$4.00 for non-members and \$3.00 for members. A temporary package of ten diskettes has been made available to all LICA members compliments of the CP/M users group. LICA members may borrow one for examination.

All diskettes are available including the latest releases. Members of the CP/M users group may borrow diskettes at any time with no charge. All others may purchase disks from the CP/M users group at any time.

For \$2.50 members of the CP/MUG can purchase disks from the library. All others may purchase the same disks for a charge of \$4.00. Included in the charges above are a one dollar donation to the CP/M users group to help defray the cost of new disks. Non-members are also paying a "copying" charge.

Those who wish to know more should contact Ed Dowdell or Al Levy.

Our thanks go to the various CP/Mers around the world who donated much of their time and talent to a)create this library and b)create the -CATALOG files which we are using to print the "SIG/M VOLUME #" pages of the STACK.

```
SIG/M volume 13
                                                    a) MITS to CP/M file conversion system
b) HELP file system
c) related system support programs
SIZE DESCRIPTION
  NUMBER
                  NAME
                  MITSCNVT.ASM
MITSCNVT.COM
MITSCNVT.DOC
MITSCNVT.HEX
                                                    28K
  13.1
13.2
                                                                    MITS to CP/M file conversion
                                                      3K
7K
  13.3
  13.4
13.5
13.6
13.7
                                                    8K
2K
13K
                   ABORTSUB.COM
HELP.ASM
                                                                    HELP file system
  13.8
13.9
                   SYSLIB.HLP
                  SYSL IB REL
HELP COM
MASM SUB
                                                     9K
  13.10
13.11
                                                      2K
1K
  13.12
13.13
13.14
13.15
13.16
                  PHELP . COM
                                                      2K
                  PHELP . MAC
                                                      6K
                  HELP . DOC
SD-2/6 . ASM
SD . COM
ENTAB . ASM
                                                      4K
                                                    18K
                                                                    updated SUPER DIRECTORY display
                                                     2K
  13.17
                                                     6K
1K
                                                                    space suppression program
                  ENTAB.COM
  13.19
                                                                   FORTRAN array handling subroutine PMMI loop back test
                                                      2K
                  LOOPBAK1 .BAS
  13.20
 SIG/M VOLUME 14 HELP file system on major system level software
  NUMBER
                                                   SIZE
                                                                   DESCRIPTION
 14.1
14.2
14.3
14.4
14.5
                  HELP COM
                                                     2K
7K
                                                                   HELP
                                                                         P file system describing
HELP file system
                                                                        HELP file system
CP/M 1.4
CP/M 2.2
CP/M 1.4 ASM (assembler)
CP/M 2.2 ASM (assembler)
CP/M MAC (macro assembler)
Microsoft BASIC
                                                   31K
37K
                  CPM.HLP
                  CPM2 .HLP
                  ASM . HLP
                                                     4K
 14.6
14.7
                  ASM2 . HLP
                                                     4K
                  MAC.HLP
                                                     8K
                 MBASIC-HLP
CBASIC-HLP
EBASIC-HLP
CBASIC2-HLP
MASM-HLP
 14.8
14.9
14.10
                                                   21K
14K
12K
                                                                         CBasic
                                                                         Basic-E
                                                                        CBasic-2
MACRO-80 (M80)
ALGOL-M
BDS 'C'
  14.11
                                                   22K
  14.12
                                                    8K
                 ALGOLM.HLP
C.HLP
FORTRAN.HLP
 14.13
                                                   13K
 14.14
                                                   17K
                                                     7K
                                                                         Microsoft Fortran
                  PASCAL HLP
 14.16
                                                                         PASCAL/MT
                                                   10K
          documentation catalog of CP/M UG volumes 1-42
and $IG/M volumes 1-3 as published by the NYACC

volume contains the various *.DOC, ABSTRACT.*, READ.ME, etc files as contained in the CP/M UG and M volumes. This was compiled and published by the NYACC to facilitate ready reference of public in software for the micro-hobbiests. SIG/M volume 12 is the corresponding cross reference to this
 SIG/M
 This volume contains the various *.DOC, A SIG/M volumes. This was compiled andomain software for the micro-hobbiests.
 CATALOG.nnn refers to a CP/M UG release volume nnn SIGMLOG.nnn refers to a SIG/M release volume nnn
 SIG/M
                                                    miscellaneous CP/M utilities
                      volume 16
 NUMBER
                      NAME
                                                    SIZE
                                                                         DESCRIPTION
 16.1
                      BYE67 - ASM
                                                                         remote console program for PMMI
                     BYE67.DOC
MLIST42.ASM
DU-V75.OBJ
DU-V75.DOC
                                                    12K
12K
 16.2
                                                                        multiple file list utility
disk utility system
 16.4
                                                      6K
5K
 16.5
 16.6
                     DU-V75.ASM
FINDBD42.ASM
APLMODEM.ASM
                                                    4ÓK
                                                                       creates file of badspots
CP/M file transfer for Apple 2
using DC Hayes Micromodem 2
console string processor
merges multiple files
system disk utility display
multi-pass CP/M memory tester
 16.8
                                                    36K
                     COMAND . LIB
 16.9
                                                      7K
7K
                     COMBINE ASM
FILE-XT2 ASM
 16.10
 16.11
                                                      8K
 16.12
                     MNEMON21 . ASM
                                                    28K
Sig/M volume 17
                                                  miscellaneous CP/M utilies
                                                  Size
                                                                  Description contents of Sig/M volume 17 acknowledgement file
                -CATALOG • 017
-CATALOG • ACK
SCRAMBLE • DOC
SCRAMBLE • ASM
17.1
17.2
17.3
17.4
17.5
17.6
17.7
                                                 2K
6K
2K
13K
                                                                  command used to encode a CP/M file
                 SORTY . DOC
                                                                  sort program for variable length records
                SORTV-DOC
SORTV-12.ASM
TAG2.ASM
MNEXEC.COM
MNOVRLAY.ASM
WHICH/1.ASM
STATUS.ASM
                                                   6K
3K
4K
                                                                   set/reset display the "no copy" flag
                                                                 MicroNet executive
overlay for MicroNet executive
returns size and version of CP/M
present various systems information under 2.2
                                                    4K
17.9
                                                   8K
                                                 5K
7K
21K
29K
3K
17.10
                NEWQCAT ASM
WORM8/8 ASM
TFX12/18 ASM
                                                                  quick catalog routine
17.11
17.12
17.13
17.14
17.15
                                                                 memory test
CP/M to CP/M file transfer utility
remote CP/M to CP/M file transfer
modifies MOVCPM for remote access
new BIOS for CP/M 2.0
                XMODEM41 - ASM
MOVPATCH - ASM
```

updated CP/M directory display

21BIOS - ASM 21BIOS - DOC 21BOOT - ASM

MACRO . LIB

NPGEN - ASM

SPCLMAC.LIB XDIR.ASM XDIR.COM

17.16 17.17 17.18

17.19 17.20

17.21 17.22

48K 3K 4K 18K

9K

4K

13K 2K

```
Sig/M
                volume 18
                                                 miscellaneous CP/M utilities
                                                                 catalog of Sig/M volume 18
Description
ICOM microfloppy utility
                 -CATALOG.018
                 Name
2411DUMP.ASM
                                                 Size
 18.1
                                                 18K
3K
 18.2
18.3
                 2411DUMP . COM
                 MFMACRO . L. I B
                                                 17K
                3812DUMP.ASM
3812DUMP.COM
DDMACRO.LIB
AREACODE.ASM
AREACODE.COM
                                                                 ICOM floppy utility
                                                 21K
 18.5
                                                   4K
 18.6
18.7
18.8
                                                 18K
                                                 14K
7K
                                                                 region and state area code search
                BANZAI.ASM
CAT2.ASM
FMAP3.ASM
UCAT2.ASM
CHAT15.ASM
 18.9
                                                  9K
                                                                 copyright notice protect
18.10
18.11
18.12
18.13
                                                  6K
7K
8K
                                                                             catalog system for CP/M 2.X
               CHAT15.ASM
CHAT15.COM
DISPLAY.COM
DISPLAY.COM
DISPLAY.COM
FILE-EXT.ASM
FILE-EXT.COM
FILE-XT2.ASM
FILE-XT2.COM
LOOK.ASM
LOOK.COM
MACTIME.ASM
ASMTIME.ASM
ASMTIME.ASM
                                                  6K
                                                                chat with local remote CP/M operator
 18.14
 18.15
                                                  3KXKKKKKKKKK
                                                                display facilities of ED.COM
18.16
18.17
18.18
18.19
                                                                display disk directory including hex data
18.20
18.21
18.22
18.23
18.24
18.25
                                                                same as FILE-EXT.ASM with 2.X compatibility
                                                                searches for 1-9 byte sequence in memory
                                                                patch for real time clock in MAC.COM patch for real time clock in ASM.COM patch for real time clock in STAT.COM updated directory sort for CP/M 2.X
                                                   7K
18.26
18.27
18.28
18.29
                STATTIME . ASM
SAP . ASM
SAP . COM
                                                  6K
6K
1K
                XLOOK . ASM
                                                13K
                                                                disk/examine/modify utility
Sig/M volume 19
                                                miscellaneous Pascal Z programs
                (original materials from Pascal Z User Group volume 1)
-CATALOG.019 contents of Sig/M volume 19
ABSTRACT.019 comments file
19.1
                AUTOBOOT . ASM
                                                  5K
                                                                autoboot on CP/M cold start
19.2
19.3
19.4
               AUTOBOOT . COM
LINEARP . PAS
                                                1K
11K
                                                                simplex algorithm to minimize
                                                                a cost function to constraints demo for variant records
                LINEARP COM
                                                21K
1K
19.5
                VARIANT .PAS
19.6
                VARIANT.COM
                                                  5K
19.7
19.8
19.9
19.10
                REVERSE . PAS
REVERSE . COM
EDITFILE . PAS
EDITFILE . COM
                                                2K
6K
9K
13K
                                                                demo for linked lists
                                                                adapted from S-100 Microsystems
                RT PAS
                                                  4K
                                                                demo program for non-text files
                                                  8K
6K
19.12
                                                                game
19.13
                STARS . PAS
19.14
19.15
                STARS.COM
ADDN.PAS
                                                  7K
1K
                                                                simple demo to add two numbers
19.16
19.17
                ADDN . COM
                ZMNEMONS . DOC
                                                                programming aid
demo on FOR loops
                                                13K
                TRIAN.PAS
TRIAN.COM
CONCHAR.PAS
19.18
                                                  1K
19.19
19.20
19.21
19.22
19.23
19.25
19.26
19.27
19.31
19.31
19.32
                                                  4K
                                                                utility for command line input
file READ evaluation
                                                  6K
                SCAN2X PAS
SCAN2X COM
STRDEMO PAS
                                                  5K
                                                  8K
                                                               demo on string functions
part of STRDEMO.PAS
demo to string words together
                                                14K
                                                  4K
3K
7K
                STRL IB DOC
               LONG . COM
                                                               convert REL. files from function blks novice utility convert gas in liters
                MAKEREL . DOC
                                                  8K
                LIOS.ASM
CONVERT.PAS
                                                  1K
                CONVERT.COM
COMPARE.!!!
                                                 бK
                                                11K
23K
                                                               compare source code files from UCSD expanded CP/M DUMP program generates a line of various length
               DUMP ASM
LSTR PAS
Sig/M volume 20
                                          PCE System Monitor
                                       (original materials from Pascal Z User Group volume 2)

103K Complete Manual of System Monitor

2K Central subsystem module

11K Command subsystem, module one

12K Command subsystem, module two

3K Intel I/O standard vector subsystem

14K Console subsystem

5K Floppy disk subsystem, it ties CPM to the monitor so that both operate
as an integrated whole

8K Cassette subsystem, controls the Dajen/

Teletek UCRI, includes Zapple compatile (RI) & (PO)

1K Bit map generator
20.1
                  SYSMON . DOC
20.2
                  SYSMONA.Z80
ASPM1.Z80
                  ASPM2.Z80
20 · 4
20 · 5
                 VECTOR · Z80
CONSOL · Z80
DISK · Z80
20.6
20.7
20.8
                  CASS.Z80
20.9
                  BMGEN.780
                  BMGEN . COM
                                                 1K
20.10
                                                10K
3K
16K
14K
                                                          Static loader for system
                 LOADER.Z80
20.11
20.12
                  LOADER . COM
                                                         Sys Monitor boot-up program
Used with bringing up bit map
Used with bringing up bit map
Used with bringing up bit map
Sample command, similiar to a COM file, a 1 Disk subsystem test utility
                 SYS.COM
ONE.HEX
ZERO.HEX
20.13
20.14
20.15
                                                14K
                  COPYTT.Z80
                                                  1K
                  COPYTT . SMC
```

```
(original materials from Pascal Z User Group volume 3)
                                                        Size
                                                                         Description general purpose "keyword in text"
  21 · 1
21 · 2
21 · 2a
21 · 2b
21 · 2c
21 · 3
21 · 4
21 · 5
                    AUTHOR - PAS
AUTHOR - COM
ADDRESS
                                                        10K
                                                        11K
                                                          1K
1K
                    BYTE . MAG
                   S100 MAG
S100 MAG
CALC PAS
CALC COM
CPLOT PAS
CPLOT COM
DELAY PAS
                                                          İŔ
                                                        12K
16K
                                                                         calculator mode program
                                                       simple banner program
  21.5
21.6
21.7
21.8
21.9
21.10
21.11
                                                                         general Pascal Z utilities
                    DELAY . REL
                   DELAY.SRC
INPORT.REL
INPORT.SRC
OUTPORT.SRC
OUTPORT.SRC
  21.13
21.14
21.15
21.16
21.17
                   KEYIN REL
KEYIN SRC
NAD PAS
NAD COM
TD I ABLO MAC
                                                                         permuted keyword index program
 21 · 18

21 · 20

21 · 20

21 · 21

21 · 22

21 · 23

21 · 24

21 · 25

21 · 26

21 · 27

21 · 30

21 · 31

21 · 33

21 · 34

21 · 34

21 · 35

21 · 36

21 · 37

21 · 38

21 · 38

21 · 38

21 · 38

21 · 38

21 · 39
                                                                         driver for Diablo w/Teletek FDC-1
                  TDIABLO.COM
DIABLO.Z80
DIABLO.COM
RANDOM.PAS
                                                                         driver for Diablo w/SD Systems S100
                                                          1K
                                                         2K
1K
4K
                                                                        Fibonacci random number generator
                   RANDOM - REL
RANDOM - SRC
                   REBOOT . COM
                                                          1K
                                                                        rebooting desired file
Pascal Z library
Wumpus game in Pascal Z
                                                       12K
12K
15K
4K
1K
                   STRLIB.LIB
WUMPUS.PAS
WUMPUS.COM
                   WUMPUS . DOC
                  CAVEO
CAVE1
CAVE2
CAVE4
                                                        1K
1K
6K
9K
                   CAVE5
                   ENTRY - PAS
                                                                        creating SRC files
                  ENTRY COM
ENTRY DOC
PEEK PAS
POWER I PAS
POWER I COM
                                                        6K
2K
1K
7K
2K
                                                                        peek and poke in Pascal Z
                                                                        demo program on powers of numbers
 21 • 40
21 • 41
                  POWERI - REL
RDR - PAS
 21 • 42
21 • 43
21 • 44
                                                      7K
29K
                                                                        an alpha-numeric numbers conversion program updated disk utility using Z80 code
                  DU.Z80
DU.COM
                                                        4K
1K
 21.45
                  DU - DOC
 Sig/M volume 22
                                                      miscellaneous Pascal Z utilities
                  (original materials from Pascal Z User Group volume 4)
                                                                       program to open flles
program that builds an alphabetical
listing of distinct words
Cosine program
                  CF10 L 1B
CONCORD . COM
CONCORD . PAS
 22.1
                                                      2K
10K
11K
 22.2
22.3
22.4
22.5
                  COSINE . PAS
                                                        2K
                  COSINE REL
COSINE SRC
GEN5 COM
GEN5 PAS
                                                        2K
6K
8K
5K
22.5
22.6
22.7
22.8
22.9
22.10
22.11
22.12
22.13
                                                                        demo on accessing CP/M files
                 GRAPH1.COM
GRAPH1.PAS
ISORTV1.COM
ISORTV1.PAS
LINENOS.COM
LINENOS.PAS
                                                      10K
1K
6K
                                                                       demo on creating a graphic representation / of a function.
insertion sort with linked list
                                                       4K84K6K2KKK5K
                                                                       keep track of text lines
22.15
22.16
22.17
22.18
22.19
                 POINT COM
POINT PAS
RANDOM MAC
RANDOM PAS
                                                                       demo on the use of pointers
                                                                       "professional" random number generator simple random number generator
                 SINCOS SRC
SINCOS REL
STRLIB DOC
STRLIB LIB
22.19
22.20
22.21
22.22
22.23
22.24
22.25
22.26
22.27
22.28
                                                                       sine/cosine utility
                                                     5K
13K
9K
2K
13K
                                                                       Ray Penley's latest updated string lib.
                  TRIG4 . COM
                                                                       simple Demo program that builds a
/ short Trig chart
a binary tree type cross-ref generator
                 TRIG4.COM
TRIG4.PAS
XREFG2.COM
XREFG2.PAS
ZPTEX.COM
ZPTEX.PAS
                                                     18K
                                                       8K
8K
5K
                                                                       very simple text formatter
22.29
22.30
22.31
22.32
22.33
                ZPIEX.PAS
LESSON4.
RECIPE.COM
RECIPE.PAS
RECIPE.MST
RCPDAT.YYY
FCLOSE.COM
FCLOSE.PAS
                                                                      recipe program
                                                       1K
1K
8K
                                                                    three different ways to close a file in Pascal Z.
22.35
```

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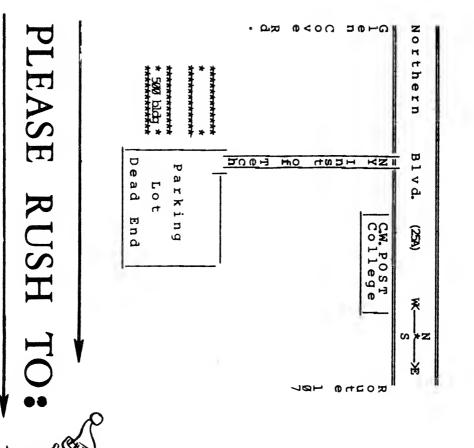
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